

TYPHOON AND DEPRESSIONS OVER THE FAR EAST, SEPTEMBER 1936

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A total of five disturbances, one typhoon and four depressions, occurred over the Far East during September 1936. Toward the end of the month, a depression intensified into a typhoon which continued in existence during the first part of October and will be included in the report of that month.

On September 7, there was a small typhoon center which was not reported until the S. S. *Malayan Prince* arrived in Manila. This ship was not affected by the storm, but the M. S. *Lossiebank*, en route to Manila, had to change her course for a few hours to avoid the typhoon center. Her noon positions were, September 7, latitude 23°43' N. longitude 167°44' E. and September 8, latitude 22°36' N., longitude 163°52' E. On the afternoon of the 7th she took a southerly course to avoid the center, met southerly winds of hurricane force, had overcast skies with passing showers, minimum barometer 29.74 at 4 a. m. September 8. Tokyo broadcasted the following warning, September 7: "Typhoon lower than 742 between longitude 165° and 167°, latitude 24°-27° moving northeast probably stormy within 300 km radius from the center." Nothing is known at the time of preparing this report concerning either the formation of this typhoon or its future course.

Typhoon, August 28 to September 6, 1936.—A mild depression formed about 300 miles northeast of Yap, moved northwest then north-northwest to a position about 90 miles south-southwest of Naha, Nansei Islands. There it intensified into a typhoon, which moved rapidly northwest, then north by west to the Yellow Sea. It now recurved (Sept. 4) to the northeast and crossed the Sea of Japan on its way to the northern part of the Pacific Ocean.

As an indication of the extent and the intensity of the typhoon, Gutzlaff reported September 3, 2 p. m., a pressure of 741.9 mm (29.21 inches) with north-northwest winds force 6, while Shanghai at the same time had 755.7 mm (29.75 inches) with northeast winds, force 3.

Depression, August 30 to September 7, 1936.—A depression formed over the Mariana Islands, moved northwest, then west across the ocean. When about 350 miles east of Luzon (Sept. 3), it shifted its course to the northwest, crossed Bashi Channel and at once began to incline to the west by south. It continued to the Gulf of Tong King, which it crossed on its way into Indochina. Pratas reported a pressure of 751.9 mm (29.60 inches) with winds of force 3, as the depression passed the locality, September 4 and 5.

Depression, September 8 to 11, 1936.—A depression of little importance formed in the Pacific Ocean about 500 miles east of southern Luzon, moved west, then north-west, and filled up east of the Balintang Channel.

Depression, September 10 to 16, 1936.—A mild depression appeared northeast of Guam, moved in a northwesterly direction, and filled up about 600 miles east of Formosa.

Depression, September 26 to 28, 1936.—A depression formed in the China Sea about 360 miles west-northwest of Manila and moved northeastward to the western

part of the Balintang Channel. There it was stationary for 2 days, after which no indication of its existence could be found. The S. S. *President Garfield* experienced the worst weather caused by this disturbance, having north winds force 6 with pressure of 747.8 mm (29.44 inches) at 6 a. m. September 27.

SEA-SURFACE TEMPERATURE SUMMARY FOR THE SOUTHWESTERN PORTION OF THE FLORIDA STRAITS, 1912-33

By GILES SLOCUM

The monthly mean sea-surface temperatures in the area bordering the northern coast of Cuba, between the Yucatan Channel and the Straits of Florida, are given in the accompanying table. The period covered is January 1912 to December 1933, inclusive. There are 13 months, as noted in the table for which no observational data are available. The observations for the first decade of the period treated, from 1912 to 1921, were few in number. The average temperatures for this period are therefore given to whole degrees. The mean temperatures for the years 1922 to 1933 are given to tenths of a degree.

The area from which these temperature observations were taken embraces two 1° squares, namely, between 23° N. and 24° N., and between 82° W. and 84° W.

This is the eighth of a series of temperature-history tabulations of this character showing sea-surface temperatures for small areas in American waters. The first of the series appeared in the November 1934 issue of the MONTHLY WEATHER REVIEW and the last previous tabulation appeared in the August 1936 issue.

Monthly and annual sea-surface temperatures in the southwestern portion of the Florida Straits, 1912 to 1933, inclusive

Year ¹	Total number of observations for the year	January	February	March	April	May	June	July	August	September	October	November	December	Annual ²
1912.....	59	77	76	78	78	80	82	81	83	81	81	80	74	79.3
1913.....	45	76	77	77	77	77	80	82	84	83	83	77	77	79.1
1914.....	53	76	74	72	78	79	78	83	83	84	83	80	80	79.2
1915.....	30	79	75	74	77	79	84	85	86	83	84	(³)	79	80.6
1916.....	58	77	(³)	74	77	78	81	81	83	84	81	78	78	79.0
1917.....	16	73	73	77	77	(³)	80	(³)	82	(³)	(³)	(³)	75	77.8
1918.....	18	(³)	(³)	76	(³)	80	84	84	84	82	83	78	(³)	80.2
1919.....	37	82	76	79	(³)	80	82	82	83	83	82	80	78	80.4
1920.....	49	74	76	75	(³)	79	81	81	82	82	81	78	79	78.8
1921.....	74	76	77	76	78	80	80	82	83	83	82	79	78	79.6
1922.....	92	77.5	75.4	77.2	78.7	80.2	81.9	82.3	83.3	82.9	80.6	80.6	77.3	79.8
1923.....	134	79.8	78.7	78.2	79.2	80.2	81.3	81.9	82.4	82.6	81.3	76.8	78.3	80.1
1924.....	149	76.8	75.0	76.6	77.9	79.9	82.8	83.9	83.8	83.4	80.2	79.3	77.6	79.8
1925.....	235	77.0	76.4	76.9	77.8	80.2	81.5	82.8	84.2	83.8	82.7	81.6	77.7	80.2
1926.....	313	77.6	76.3	75.8	78.5	80.2	81.9	83.8	83.9	83.4	83.3	79.7	79.5	80.3
1927.....	314	77.2	76.8	77.5	78.5	80.5	82.4	83.0	83.9	83.9	82.0	80.3	77.7	80.3
1928.....	350	75.6	76.4	77.5	77.3	78.5	82.4	83.2	83.6	83.4	82.7	79.9	78.7	79.9
1929.....	370	77.3	76.9	77.6	79.0	80.3	81.7	82.8	82.9	82.6	81.8	80.7	78.7	80.2
1930.....	338	77.6	76.4	77.4	77.7	80.1	82.0	83.1	83.9	83.6	81.4	80.5	77.6	80.1
1931.....	300	76.0	77.7	76.6	76.4	79.3	82.0	83.7	84.5	84.1	82.4	79.5	80.1	80.2
1932.....	246	78.9	78.5	77.8	77.0	80.4	82.8	84.3	84.8	84.9	82.5	81.2	78.2	80.9
1933.....	197	77.6	78.0	78.3	79.7	80.8	82.1	83.1	83.7	83.7	81.9	79.7	79.1	80.6
Number of years' record.....		21	20	22	19	21	22	21	22	21	21	20	21	22
Mean, 1912-33 ²		77.1	76.4	76.6	77.8	79.7	81.8	82.7	83.6	83.1	82.0	79.5	78.0	79.9

¹ Values for 1912 to 1921, inclusive, given to whole degrees instead of to tenths, because of paucity of data.

² Computed with monthly values figured to 1 decimal place, and, therefore, not exact means of the figures given in the table.

³ No data.

⁴ Interpolated values used for missing months.